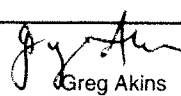
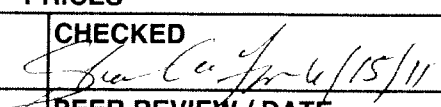


FEATURE: Klamath River Dams Removal Partial Removal Option Copco No. 2 Dam & Powerplant Removal Most Probable - Escalation NOT Incuded Life Cycle - 50 Year Summary	PROJECT: Klamath River Oregon <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">WOID: AF652</td> <td style="width:33%;">ESTIMATE LEVEL: Feasibility</td> </tr> <tr> <td>REGION: MP</td> <td>UNIT PRICE LEVEL: Jul-10</td> </tr> <tr> <td colspan="2">FILE: U:\2011 Projects\Klamath\002 Completed Sheets\MP MPL MPH\02 - Copco 2\No Escalation\Copco 2 Probable.xlsx\Life Cycle Summary</td> </tr> </table>	WOID: AF652	ESTIMATE LEVEL: Feasibility	REGION: MP	UNIT PRICE LEVEL: Jul-10	FILE: U:\2011 Projects\Klamath\002 Completed Sheets\MP MPL MPH\02 - Copco 2\No Escalation\Copco 2 Probable.xlsx\Life Cycle Summary	
WOID: AF652	ESTIMATE LEVEL: Feasibility						
REGION: MP	UNIT PRICE LEVEL: Jul-10						
FILE: U:\2011 Projects\Klamath\002 Completed Sheets\MP MPL MPH\02 - Copco 2\No Escalation\Copco 2 Probable.xlsx\Life Cycle Summary							

PLANT ACCOUNT	PAY ITEM	DESCRIPTION	CODE	QUANTITY	UNIT	UNIT PRICE	AMOUNT
		Periodic Costs - Year 1					\$216,040.00
		Periodic Costs - Year 8					\$119,410.50
		Periodic Costs - Year 17					\$110,660.00
		Periodic Costs - Year 25					\$60,063.30
		Periodic Costs - Year 33					\$57,956.80
		Periodic Costs - Year 42					\$30,211.50
		Periodic Costs - Year 50					0.00
		Annual Costs - Maintenance					\$967,383.00
		(Assumes gov't service / construction contracts)					
		Subtotal 1					\$1,561,725.10
		Mobilization	5%	+/-			\$78,000.00
		Subtotal 1 with Mobilization					\$1,639,725.10
		Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July, 2020)					
		at		per year for		months.	
		Subtotal 2 = Subtotal 1 with Mobilization + Escalation to NTP					\$1,639,725.10
		Design Contingencies	10%	+/-			\$160,274.90
		Subtotal 3 = Subtotal 2 + Design Contingencies					\$1,800,000.00
		Allowance for Procurement Strategies (APS)	0%	+/-			
		Type of solicitation assumed is: Competitive Request for Proposal					
		Subtotal 4 = Subtotal 3 + APS					\$1,800,000.00
		CONTRACT COST					\$1,800,000.00
		Construction Contingencies	20%	+/-			\$400,000.00
		FIELD COST					\$2,200,000.00
		Non-Contract Costs	30%	+/-			\$700,000.00
		(Environmental Cultural / Mitigation ~ 7%,					
		Engineering Design ~ 5%, Maintenance Service Contract ~ 5%					
		Procurement ~ 2%, Inspections ~ 10%					
		and Closeout ~ 1%)					
		CONSTRUCTION COST					\$2,900,000.00
		Note: intial estimate completed 4/17/11, revised non-contract costs 5/12/11, design contingencyt costs 6/9/11					
		Ref.: For appropriate use and terminology, see Reclamation Manual, Directives and Standards FAC; 09-01, 09-02 and 09-03.					

QUANTITIES		PRICES	
BY Rick Benik	CHECKED Stephen Latham	BY  Greg Akins	CHECKED  Rick Benik
DATE PREPARED 03/24/11	PEER REVIEW / DATE Tom Hepler P.E. 3/25/11	DATE PREPARED 6/15/11	PEER REVIEW / DATE Rick Benik 6/15/11

FEATURE:		PROJECT:	
Klamath River Dams Removal Partial Removal Option Copco No. 2 Dam & Powerplant Removal Most Probable High- Escalation NOT Incuded Life Cycle - 50 Year Summary		Klamath River Oregon	
WOID: AF652		ESTIMATE LEVEL: Feasibility	
REGION MP		UNIT PRICE LEVEL Jul-10	
FILE:		U:\2011 Projects\Klamath\002 Completed Sheets\MP MPL MPH\02 - Copco 2\No Escalation\Copco 2 MPH - Probable.xlsx\Life Cycle Summary	

PLANT ACCOUNT	PAY ITEM	DESCRIPTION	CODE	QUANTITY	UNIT	UNIT PRICE	AMOUNT
		Periodic Costs - Year 1					\$247,680.00
		Periodic Costs - Year 5					\$157,217.23
		Periodic Costs - Year 10					\$128,447.03
		Periodic Costs - Year 13					\$32,667.67
		Periodic Costs - Year 15					\$104,941.70
		Periodic Costs - Year 20					\$85,737.19
		Periodic Costs - Year 25					\$90,160.47
		Periodic Costs - Year 30					\$57,230.61
		Periodic Costs - Year 35					\$46,756.64
		Periodic Costs - Year 38					\$11,891.46
		Periodic Costs - Year 40					\$38,201.20
		Periodic Costs - Year 45					\$31,210.22
		Periodic Costs - Year 50					0.00
		Annual Costs - Maintenance					\$2,944,208.00
		(Assumes gov't service / construction contracts)					
		Subtotal 1					\$3,976,349.42
		Mobilization	5%	+/-			\$200,000.00
		Subtotal 1 with Mobilization					\$4,176,349.42
		Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July, 2020)					
		None Included:		per year for		months.	
		Subtotal 2 = Subtotal 1 with Mobilization + Escalation to NTP					\$4,176,349.42
		Design Contingencies	15%	+/-			\$627,594.58
		Subtotal 3 = Subtotal 2 + Design Contingencies					\$4,803,944.00
		Allowance for Procurement Strategies (APS)	2.0%	+/-			\$96,056.00
		Type of solicitation assumed is: Selective Request for Proposal					
		Subtotal 4 = Subtotal 3 + APS					\$4,900,000.00
		CONTRACT COST					\$4,900,000.00
		Construction Contingencies	25%	+/-			\$1,200,000.00
		FIELD COST					\$6,100,000.00
		Non-Contract Costs	35%	+/-			\$2,100,000.00
		(Environmental Cultural / Mitigation ~ 10%,					
		Engineering Design ~ 7%, Maintenance Service Contract ~ 5%					
		Procurement ~ 2%, Inspections ~ 10%					
		and Closeout ~ 1%)					
		CONSTRUCTION COST					\$8,200,000.00

Ref.: For appropriate use and terminology, see Reclamation Manual, Directives and Standards FAC; 09-01, 09-02 and 09-03.

QUANTITIES		PRICES	
BY	CHECKED	BY	CHECKED
Rick Benik	Stephen Latham	Greg Akins	4/15/11
DATE PREPARED	PEER REVIEW / DATE	DATE PREPARED	PEER REVIEW / DATE
03/24/11	Tom Hepler P.E. 3/25/11		6/15/11

FEATURE:

Klamath River Dams Removal
Partial Removal Option
Copco No. 2 Dam & Powerplant Removal
Most Probable Low- Escalation NOT Included

Life Cycle - 50 Year

Summary

PROJECT:

Klamath River
Oregon

WOID: AF652 ESTIMATE LEVEL Feasibility

REGION MP UNIT PRICE LEVE Jul-10

FILE: U:\2011 Projects\Klamath\002 Completed Sheets\MP MPL MPH\02 - Copco
2\No Escalation\Copco 2 MPL - Probable.xlsx\Life Cycle Summary

PLANT ACCOUNT	PAY ITEM	DESCRIPTION	CODE	QUANTITY	UNIT	UNIT PRICE	AMOUNT
		Periodic Costs - Year 1					\$175,470.00
		Periodic Costs - Year 17					\$66,899.00
		Periodic Costs - Year 25					\$15,652.86
		Periodic Costs - Year 33					\$35,037.52
		Periodic Costs - Year 50					0.00
		(Assumes gov't service / construction contracts)					
		Annual Costs - Maintenance					\$630,902.00
		Subtotal 1					\$923,961.38
		Mobilization	5%	+/-			\$46,000.00
		Subtotal 1 with Mobilization					\$969,961.38
		Escalation to Notice to Proceed (NTP): from Unit Price Level (July, 2010) to NTP (July, 2020)					
		None included:		per year for		months.	
		Subtotal 2 = Subtotal 1 with Mobilization + Escalation to NTP					\$969,961.38
		Design Contingencies	8%	+/-			\$80,038.62
		Subtotal 3 = Subtotal 2 + Design Contingencies					\$1,050,000.00
		Allowance for Procurement Strategies (APS)	0%	+/-			
		Type of solicitation assumed is: Full and open sealed bid competition					
		Subtotal 4 = Subtotal 3 + APS					\$1,050,000.00
		CONTRACT COST					\$1,050,000.00
		Construction Contingencies	18%	+/-			\$200,000.00
		FIELD COST					\$1,250,000.00
		Non-Contract Costs	25%	+/-			\$400,000.00
		(Environmental Cultural / Mitigation ~ 5%, Engineering					
		Design ~ 4%, Maintenance Service Contract ~ 4%					
		Procurement ~ 1%, Inspections ~ 10%					
		and Closeout ~ 1%)					
		CONSTRUCTION COST					\$1,650,000.00

Ref.: For appropriate use and terminology, see Reclamation Manual, Directives and Standards FAC; 09-01, 09-02 and 09-03.

QUANTITIES

PRICES

BY

Rick Benik

CHECKED

Stephen Latham

BY

Greg Akins
Greg Akins

CHECKED

6/15/11

DATE PREPARED

03/24/11

PEER REVIEW / DATE

Tom Hepler P.E. 3/25/11

DATE PREPARED

PEER REVIEW / DATE

6/15/11